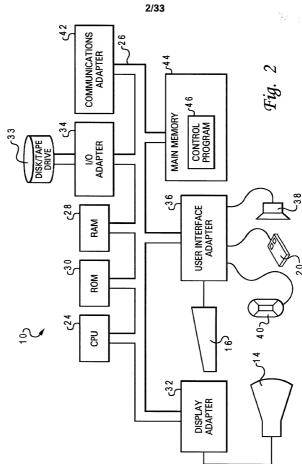


Fig. 1



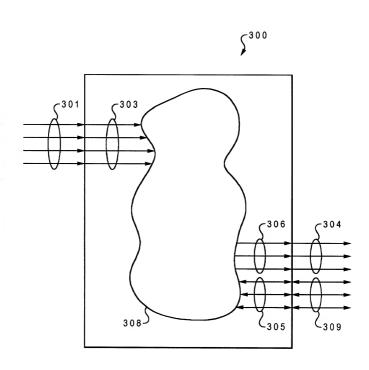
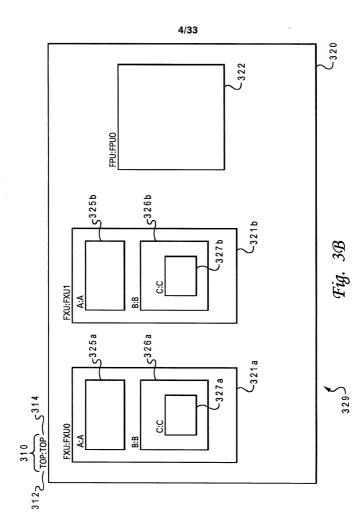
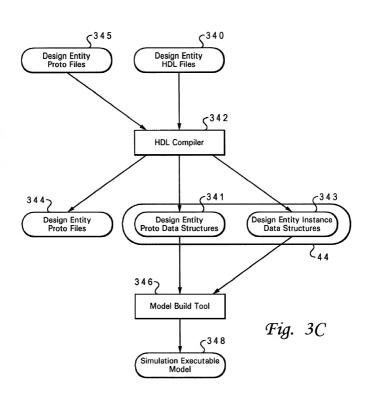
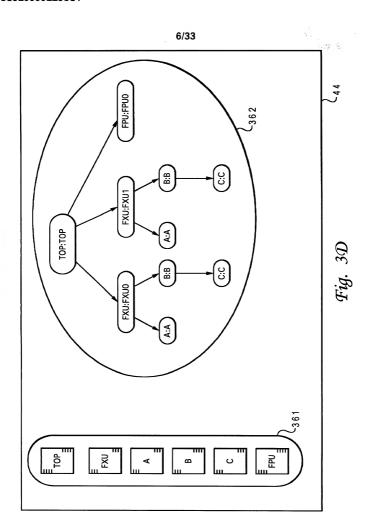


Fig. 3A







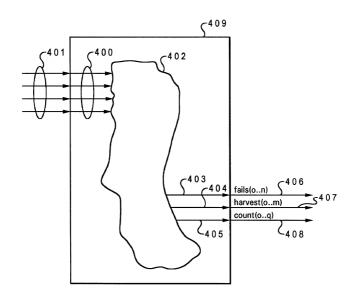
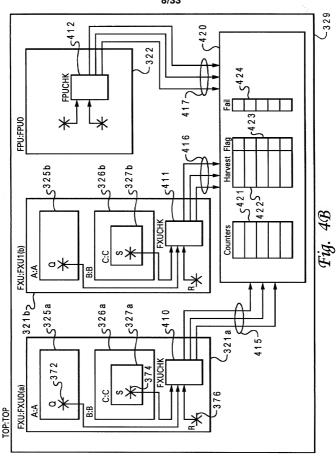


Fig. 4A



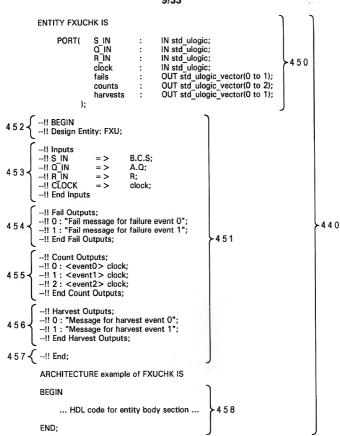
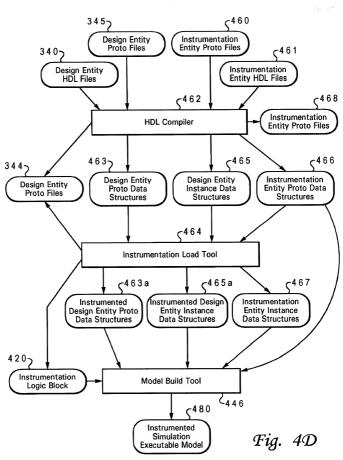
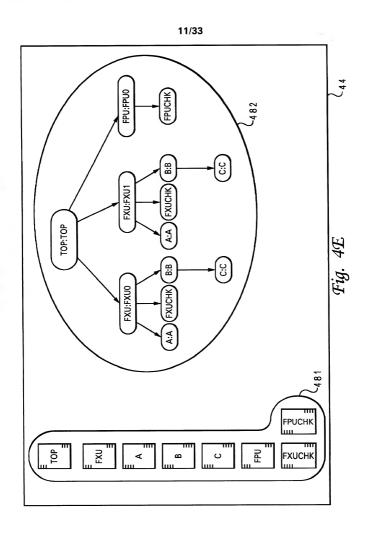


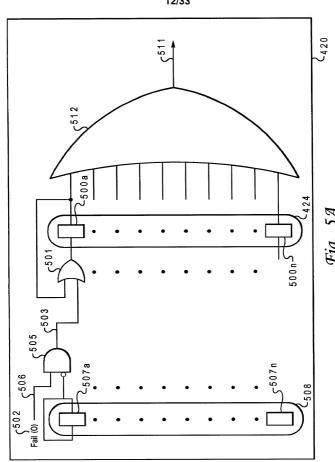
Fig. 4C



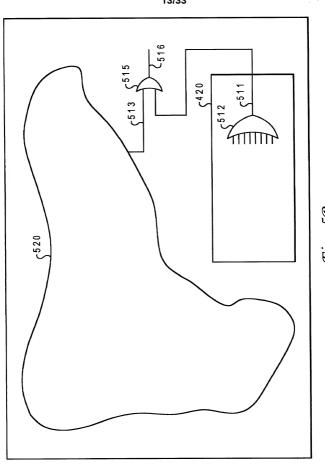


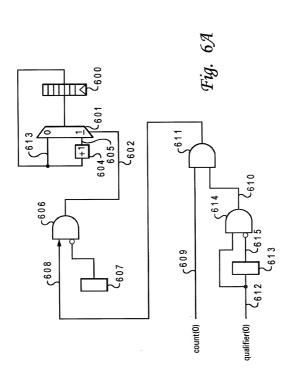


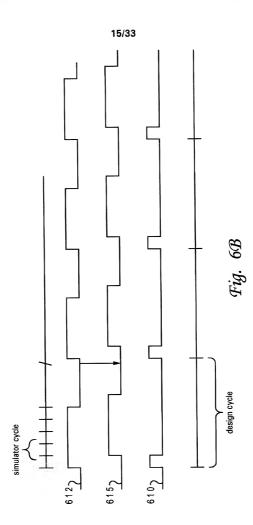












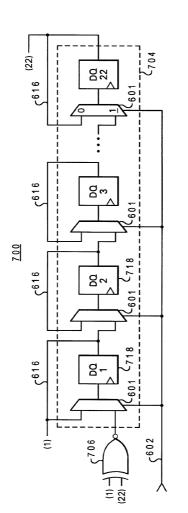


Fig. 7

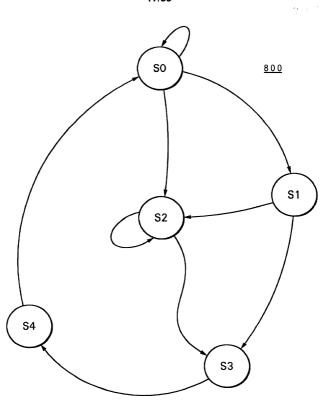


Fig. 8A Prior Art

18/33

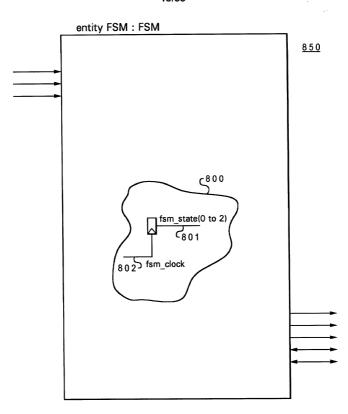


Fig. 8B Prior Art

UNIN

## 19/33

```
ENTITY FSM IS
     PORT(
               ....ports for entity fsm....
           ):
     ARCHITECTURE FSM OF FSM IS
     BEGIN
              ... HDL code for FSM and rest of the entity ...
              fsm_state(0 to 2) <= ... Signal 801 ...
      853 < -!! Embedded FSM : examplefsm;
      859 √ --!! clock
                                 : (fsm clock);
      8 5 4 - √ --!! state_vector
                                 : (fsm state(0 to 2));
      855√ --!! states
                                 : (S0, S1, S2, S3, S4);
                                                                         -852 ≻860
      856 <--!! state encoding: ('000', '001', '010', '011', '100');
                                 : (SO = > SO, SO = > S1, SO = > S2,
              --!! arcs
                                 (S1 = > S2, S1 = > S3, S2 = > S2,
                                 (S2 = > S3, S3 = > S4, S4 = > S0);
      858 < --!! End FSM;
     END:
```

Fig. 8C

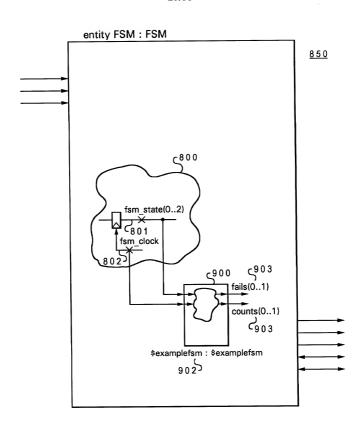


Fig. 9

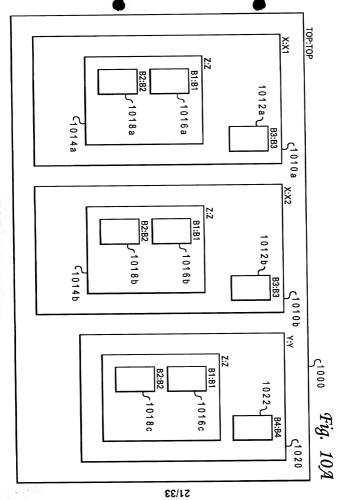




Fig. 10C COUNT1 COUNT1 COUNT1 COUNT1 < 1030 < 1032 < 1034 X1.Z X2.Z X2.Z X2.Z X2.Z X.Z X.Z

COUNT1

1036 <instantiation identifier>.<design entity name>.<eventname> £1030

EGZMENKE EKTOLI

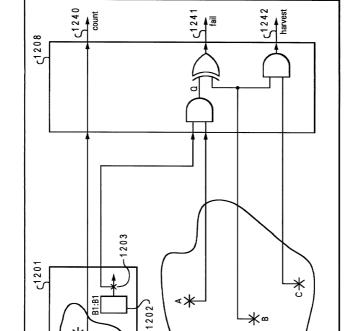
Fig. 11B

Fig. 11C

Υ:Υ

×

Fig. 12A



DOTENT DIST

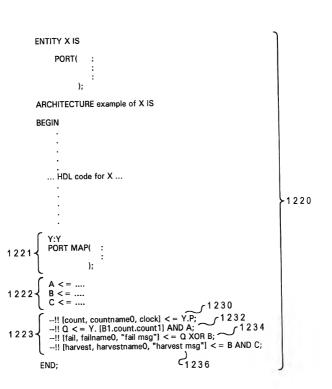


Fig. 12B

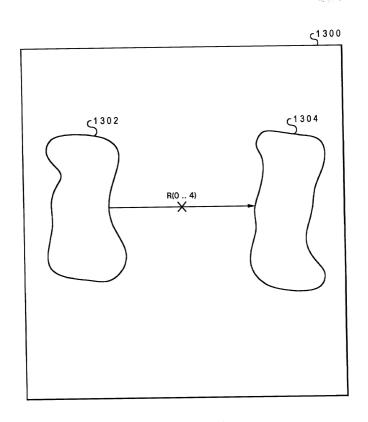
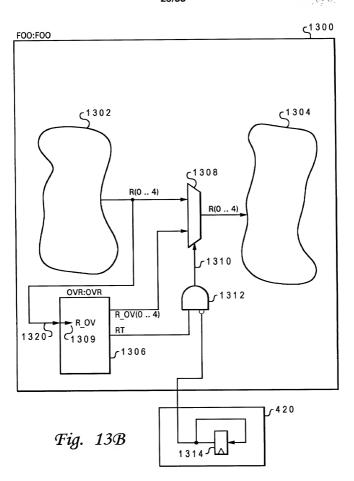


Fig. 13A



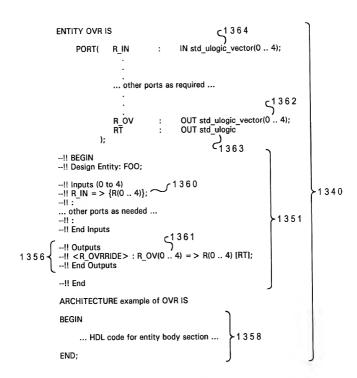
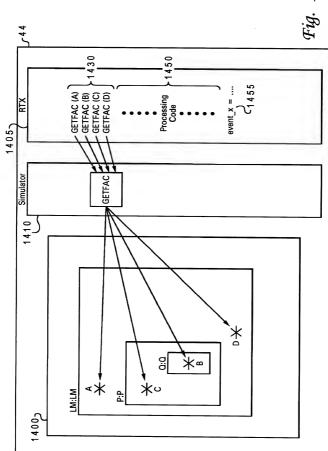


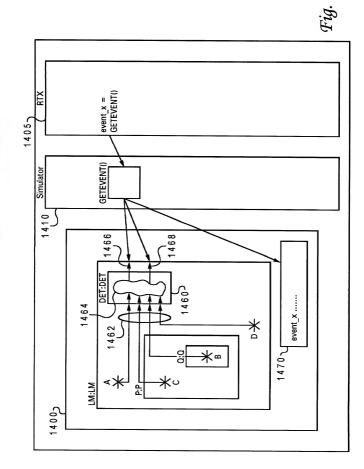
Fig. 13C

-!! R\_IN <= {R};
-!! C1382
-!! C1382
-!! R\_OV(0 to 4) <= ......;
-!! RT <= .....;
-!! [override, R\_OVRRIDE, R(0 .. 4), RT] <= R\_OV(0 to 4);

Fig. 13D







DOYMARKS DUDGET

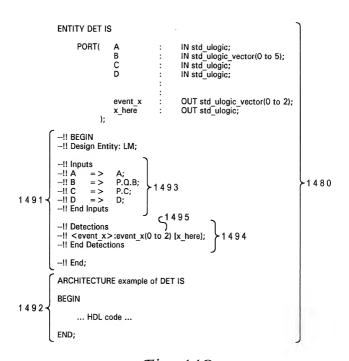


Fig. 14C